

# Clarke®



## COMPRESSOR

MODEL NO: WARRIOR 55

PART NO: (110V) 2323010, (230V) 2322020,

## OPERATION & MAINTENANCE INSTRUCTIONS



LS0512

## INTRODUCTION

Thank you for purchasing this CLARKE Compressor.

Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to your purchase giving you long and satisfactory service.

## GUARANTEE

This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

## PARTS AND SERVICING

For Parts & Servicing, please contact your nearest dealer, or CLARKE International, on one of the following numbers.

**PARTS & SERVICE TEL: 020 8988 7400**

**PARTS & SERVICE FAX: 020 8558 3622**

**or e-mail as follows:**

**PARTS: [Parts@clarkeinternational.com](mailto:Parts@clarkeinternational.com)**

**SERVICE: [Service@clarkeinternational.com](mailto:Service@clarkeinternational.com)**

# SAFETY PRECAUTIONS

**Before using your compressor it is in your own interest to read and pay attention to the following safety rules**

1. Compressed air is dangerous. NEVER direct a jet of air at people or animals, and NEVER discharge compressed air against the skin.
2. DO NOT operate your compressor with any guards removed.
3. Electrical or mechanical repairs should only be carried out by a qualified engineer. If problems occur, contact your Clarke dealer.
4. Before carrying out any maintenance, ensure the pressure is expelled from the air receiver, and the machine is disconnected from the electrical supply.
5. DO NOT leave pressure in the receiver overnight, or when transporting.
6. DO NOT adjust, or tamper with the safety valves. The maximum pressure is factory set, and clearly marked on the machine.
7. DO NOT operate in wet or damp conditions. Keep the machine dry at all times. Similarly, a clean atmosphere will ensure efficient operation. Do not use in dusty or otherwise dirty locations.
8. Some of the metal parts can become quite hot during operation. Take care not to touch these until the machine has cooled down.
9. Always set the pressure regulator to the recommended setting for the tool.
10. When spraying flammable materials e.g. cellulose paint, ensure that there is adequate ventilation and keep clear of any possible source of ignition.
11. Before spraying any material, always consult paint manufacturers instructions for safety and usage.
12. Protect yourself. Goggles will protect your eyes from flying particles. Face masks will protect you against paint spray and/or fumes.
13. Do not exert any strain on electrical cables and ensure that air hoses are not kinked or wrapped around machinery etc.
14. When disconnecting air hoses or other equipment from your compressor ensure that the air supply is turned off at the machine outlet and vent all pressurised air from within the machine and other equipment attached to it.
15. Make sure that children and animals are kept well away from the compressor and any equipment attached to it.
16. Always ensure that all individuals using the compressor have had the necessary training and have read and fully understand these operating instructions.
17. Ensure that any equipment or tool used in conjunction with your compressor, has a safe working pressure exceeding that of the machine.
18. Exercise caution when transporting the machine to avoid tipping the machine over.
19. Permanently installed systems should be installed by a competent engineer.
20. These Machines produce noise levels in excess of 70dB(A). Persons working in the vicinity of the machine must be provided with suitable ear protection.

# ELECTRICAL CONNECTIONS



**WARNING!** Read these electrical safety instructions thoroughly before connecting the product to the mains supply.

## WARRIOR 55, 110V MODEL ONLY

Connect the mains lead to a suitable 110V (50Hz) electrical supply through an approved plug or a suitably fused isolator switch.

If using a portable 110V transformer, make sure it has a rated capacity sufficient to take the load of the air compressor (see specifications on page 12).

## WARRIOR 55, 230V MODEL ONLY

Connect the mains lead to a standard, 230 Volt (50Hz) electrical supply through an approved 13 amp BS 1363 plug, or a suitably fused isolator switch.

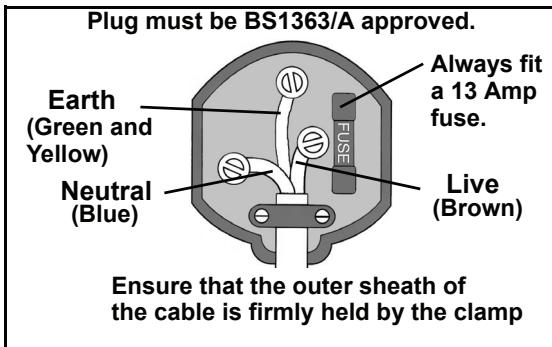
If the plug has to be changed because it is not suitable for your socket, or due to damage, it should be cut off and a replacement fitted, following the wiring instructions shown below. The old plug must be disposed of safely, as insertion into a mains socket could cause an electrical hazard.



**WARNING!** The wires in the power cable of this product are coloured in accordance with the following code:  
Blue = Neutral    Brown = Live    Yellow and Green = Earth

If the colours of the wires in the power cable of this product do not correspond with the markings on the terminals of your plug, proceed as follows.

- The wire which is coloured **Blue** must be connected to the terminal which is marked **N** or coloured **Black**.
- The wire which is coloured **Brown** must be connected to the terminal which is marked **L** or coloured **Red**.
- The wire which is coloured **Yellow and Green** must be connected to the terminal which is marked **E** or  $\frac{1}{3}$  or coloured **Green**.



We strongly recommend that this machine is connected to the mains supply via a Residual Current Device (RCD)

If in any doubt, consult a qualified electrician. DO NOT attempt any repairs yourself

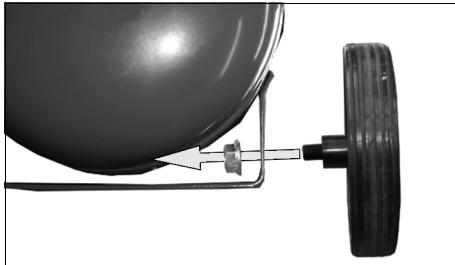
# ASSEMBLY



CAUTION: THE COMPRESSOR IS HEAVY, GET ASSISTANCE WHEN LIFTING OR MOVING THIS COMPRESSOR TO AVOID PERSONAL INJURY.

## FITTING THE WHEELS

Fit the wheels using a suitable spanner.



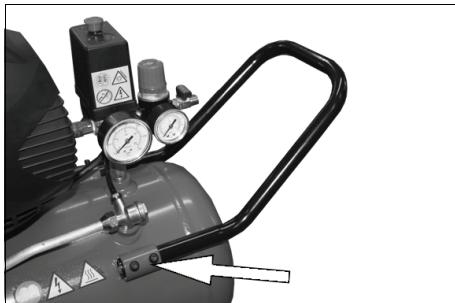
## FITTING THE SUPPORT FEET

Fit the 2 support feet into place as shown.



## FITTING THE HANDLE

Slide the handle into the position shown and secure in place using the fixings provided.



## MOVING THE AIR COMPRESSOR

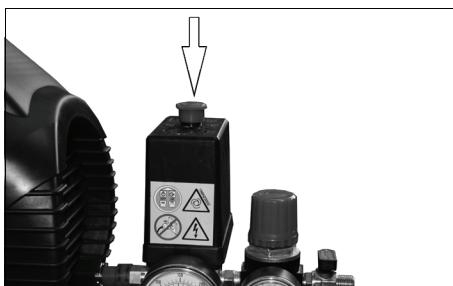
Before moving the compressor, switch off and disconnect it from the mains power supply.

- Always use the handle.
- Only move the compressor when it is switched off.
- Do not lift by (or put strain on) fittings, valves or hoses.
- Take care when moving the compressor to avoid damaging the valves or fittings.

## BEFORE USE

Before connecting your compressor to the mains supply, check the following:-

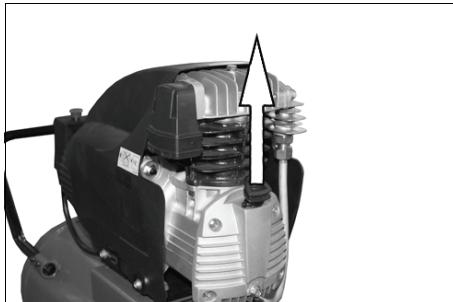
- Make sure that the ON/OFF switch is in the OFF (pressed down) position.
- Make sure the compressor is on level ground.
- Check that the mains voltage is the same as that shown on the data label on the compressor.



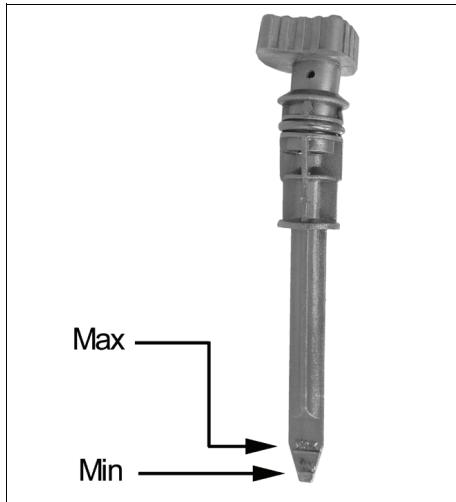
## CHECK THE OIL LEVEL

**NOTE:** The compressor is supplied without any oil inside, there will also be a transit plug inserted into the oil reservoir, which must be removed and the dipstick supplied inserted in its place.

1. Remove the dipstick from the oil reservoir.



2. Add oil until the oil level is between the min and max marks on the dipstick.
  - Only use SAE40 compressor oil, available from your Clarke Dealer.

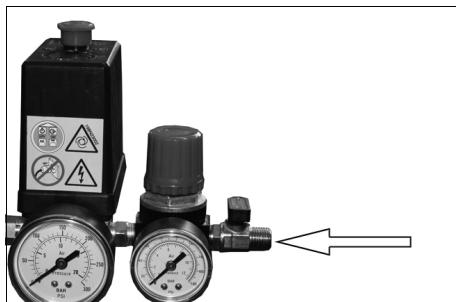


## ATTACHING AIR TOOLS



**WARNING: BEFORE CONNECTING ANY AIR TOOLS, MAKE SURE YOU HAVE READ ANY INSTRUCTIONS SUPPLIED WITH THE TOOL, ALSO ENSURE THAT THE TOOL IS COMPATIBLE WITH THE COMPRESSOR AND HOSE SPECIFICATIONS.**

1. Attach the air hose to the regulator.
2. Fit the tool to the end of the air hose.



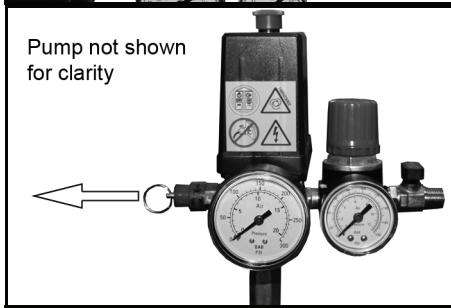
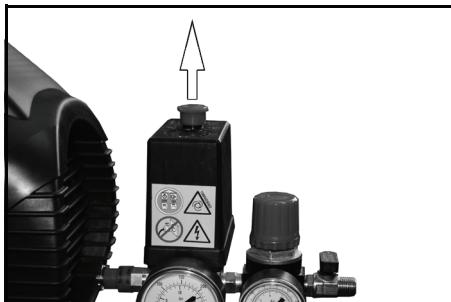
# OPERATION

If the compressor has not been used for 24 hours or more, open the drain valve in the tank to drain any condensate which may have accumulated. See page 10

1. Insert the plug into the power socket and switch on the power.
2. Lift the On/Off button.

- The compressor will run until the main tank is fully pressurised. It will then switch off.
- The compressor will start up again when the pressure in the main tank decreases during use.

3. Make sure the safety valve is working correctly by pulling on the ring attached.
  - Air should be released when the ring is pulled and stop when released.
  - If the valve does not operate as expected, it must be replaced by qualified service personnel before the compressor is used.



**WARNING: DO NOT REMOVE OR ATTEMPT TO ADJUST THE SAFETY VALVE.**



4. Set the operating pressure you need using the pressure regulator.
  - Clockwise to increase the pressure
  - Anticlockwise to decrease the pressure

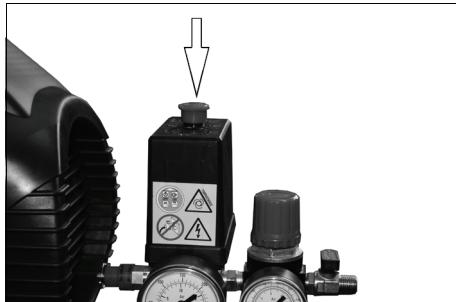


## REMOVING TOOLS FROM THE AIR HOSE



**WARNING: ALWAYS SET THE PRESSURE REGULATOR TO ZERO BEFORE ATTEMPTING TO REMOVE OR REPLACE A TOOL.**

1. Push down on the On/Off button to stop the compressor.

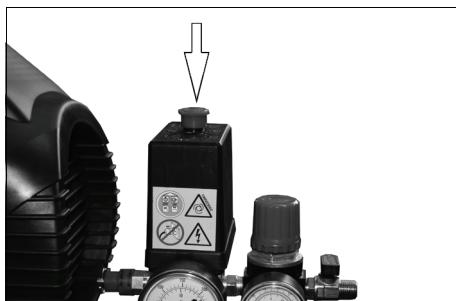


2. Set the pressure regulator to the lowest setting (fully anticlockwise).
3. Activate the tool (spray gun etc) to depressurise the air hose.
4. The tool can then be disconnected from the hose.



## SHUTTING DOWN THE COMPRESSOR

1. Follow steps 1-3 in "Removing Tools From The Air Hose" above.
2. Disconnect the compressor from the mains supply.
  - Never leave the compressor unattended while the tank is pressurised.
  - Always release the pressure from the tank when not in use or prior to storage, as described in the following section.

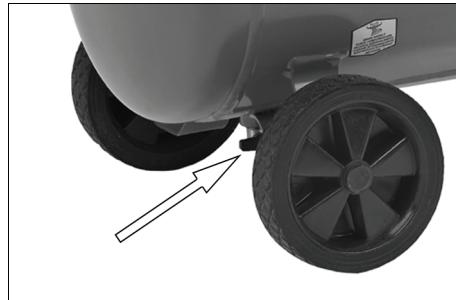


## DRAINING THE TANK



CAUTION: YOU MUST DRAIN THE TANK AFTER EACH DAYS USE AND BEFORE YOU STORE YOUR COMPRESSOR.

1. Turn the compressor off and disconnect from the power supply.
  - Put a container beneath the drain valve to catch any condensation.
2. Open the drain valve slowly.
  - You will hear a hissing sound as the tank depressurises.
  - Any condensation will drain from the tank.
3. Close the drain valve when the tank has fully drained.



## RESET BUTTON

This compressor has a thermal overload device which protects the motor.

If the motor overheats the thermal overload device cuts the power, thus preventing damage to the motor.

If the thermal overload device activates, wait 5 minutes for the motor to cool and press the reset button.

If you restart the compressor and the overload cutout activates again,

- Switch off the compressor.
- Disconnect the compressor from the mains supply.
- Have your compressor checked by a qualified service agent.



# MAINTENANCE

## CHECKING THE OIL LEVEL (DAILY)

Make sure that there is sufficient oil in the oil reservoir (See page 6) and top-up if necessary.

- Only use SAE40 compressor oil, available from your Clarke dealer.

## DRAIN THE TANK (DAILY)

When you have finished using the compressor for the day, always open the drain valve to ensure that any condensate is drained off.

## CLEANING THE AIR INTAKE FILTER (MONTHLY)

The air intake filter should be inspected on a monthly basis, and more often in dusty conditions,

1. Remove the air filter cover from the compressor as shown.



2. Remove the sponge filter from the filter cover.



3. Clean the sponge and the filter cover using a soft brush.

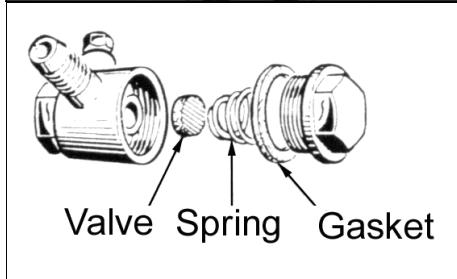
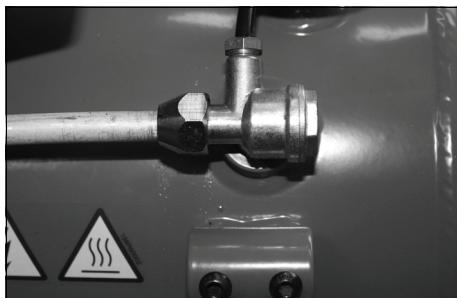
- If necessary, the sponge filter may be gently washed in warm soapy water.
- Rinse and allow the filter to dry thoroughly before refitting.

4. Ensure that the filter and filter cover is replaced in its original position.
- If the filter is damaged, you should obtain a replacement.

## CHECK THE NON RETURN VALVE (EVERY 6 MONTHS)

If the tank pressure decreases for no apparent reason, it is possible that the non-return valve is leaking. To check the valve:

1. Make sure the tank is not under pressure and the machine switched OFF.
2. Examine the non-return valve, and replace the gasket and valve if necessary.



## SPECIFICATIONS

	Warrior 55 230V	Warrior 55 110V
Max. Pressure	10 Bar	10 Bar
Voltage	230V @ 50HZ	110V @ 50HZ
Air Displacement	9 CFM	9 CFM
Receiver Capacity	50 L	50 L
Fuse Rating	13 A	N/A
Dimensions (L x W x H) mm	855 x 377 x 690	855 x 377 x 690
Guaranteed Sound Power Level	97 dB(A)	97 dB(A)
Weight	35.1 kg	35.1kg
Compressor Oil	SAE 30	SAE 30

Please note that the details and specifications contained herein, are correct at the time of going to print. We reserve the right to change specifications at any time without prior notice.

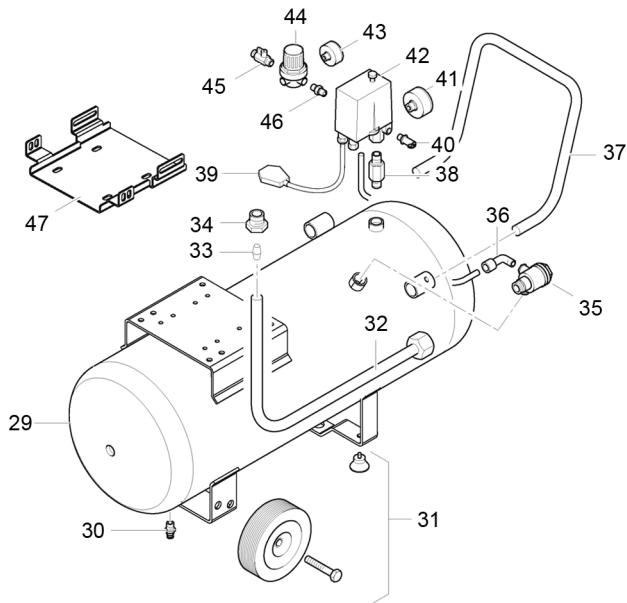
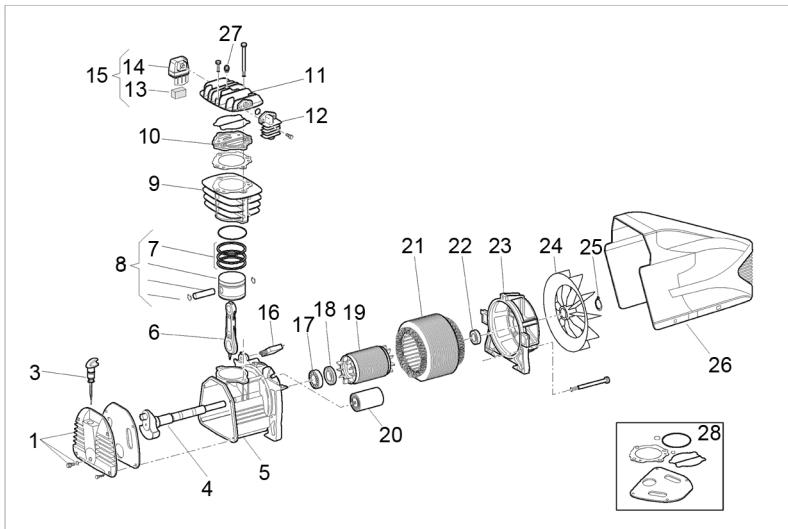
## TROUBLESHOOTING



CAUTION: DO NOT ATTEMPT ANY REPAIR OR ADJUSTMENT IF YOU ARE UNCERTAIN AS TO HOW IT SHOULD BE DONE. IF YOU HAVE ANY QUERIES, CONTACT YOUR CLARKE DEALER.

PROBLEM	PROBABLE CAUSE	REMEDY
The compressor has stopped and does not start.	Bad electrical connections.	<ol style="list-style-type: none"><li>1. Check electrical connections.</li><li>2. Clean and tighten as necessary.</li></ol>
	Overload cutout switch has tripped.	<ol style="list-style-type: none"><li>1. Switch off and wait approx 5 minutes.</li><li>2. Press the reset button and switch on again.</li></ol>
	Motor windings burnt out.	<ol style="list-style-type: none"><li>1. Contact your Clarke dealer for a replacement motor.</li></ol>
The compressor does not reach the set pressure and overheats easily.	Compressor head gasket blown or valve broken.	<ol style="list-style-type: none"><li>1. Return the machine to your nearest service agent.</li></ol>
Compressor does not start.	The tank has already fully pressurised.	<ol style="list-style-type: none"><li>1. Open drain valve to expel air. Compressor should start again when pressure reduces.</li></ol>
Air leaking from the pressure switch valve when the compressor is not running.	Faulty non-return valve.	<ol style="list-style-type: none"><li>1. Drain receiver completely of air.</li><li>2. Remove the valve end plug.</li><li>3. Carefully clean the valve seat and the gasket</li><li>4. Reassemble.</li></ol>
Air pressure from the regulator will not adjust.	The diaphragm within the regulator body is broken.	<ol style="list-style-type: none"><li>1. Replace regulator</li></ol>
The compressor is very noisy and makes a metallic knocking sound.	Compressor damaged and needs overhaul.	<ol style="list-style-type: none"><li>1. Return the machine to your nearest service agent.</li></ol>

# EXPLODED DIAGRAM



## PARTS LIST

NO	DESCRIPTION	PART NO
1	Casing Cover	FN116CN0025
2	Mk285-2.5m 230-240/50	FN516NC02605
2	Mk285-2.5m 110/50	FN516NC02601
3	Oil Dipstick	FN012089000
4	Crankshaft	FN116CN0003
5	Casing	FN116120006
6	Connecting Rod	FN116121005
7	Piston Ring Set	FN213118002
8	Complete Piston	FN416NC0010
9	Cylinder	FN116NC0002
10	Valve Holder Plate	FN416CN0003
11	Head	FN116CN0013
12	Manifold	FN016NC0004
13	Filter Element	FN017082001
14	Air Filter Cover	FN017082002
15	Intake Filter	FN317082000
16	Overload Cutout 230v	FN008399000
16	Overload Cutout 110v	FN008401000
17	Bearing	FN033082000
18	Seal Ring	FN010132000
19	Rotor	FN034104000
20	Condenser 230v	FN009200026
20	Condenser 110v	FN009200038
21	Wound Casing 230v	FN316NC1605
21	Wound Casing 110v	FN316NC1601
22	Bearing	FN033005000
23	Rear Cover	FN116120007
24	Fan	FN116120008
25	Circlip	FN015083000
26	Housing	FN116NC0003
27	Automatic Discharge Valve	FN011000183
28	Gaskets Set 230v	FN216CN0001
28	Gaskets Set 110v	FN216NC0004
29	Tank	FN9413365053
30	Drain Valve	FN9047051
31	Wheel Kit	FN9420104

NO	DESCRIPTION	PART NO
32	Connection Pipe	FN9043264
33	Olive	FN9053156
34	Nipple	FN9050511
35	Non Return Valve	FN9048063
36	Rilsan Pipe	FN9270006
37	Handle	FN9083708
38	Extension.	FN9050510
39	Cord UK (230 V ONLY)	FN9065683
40	Safety Relief Valve	FN9049019
41	Gauge	FN9414582
42	Switch	FN9412071
43	Gauge	FN9052019
44	Pressure regulator	FN9051116
45	Tap Ball Valve	FN9047077
46	Double Ended Connector	FN9050373
47	Base Pioneer	FN9416524021

# DECLARATION OF CONFORMITY



Hemnall Street, Epping, Essex CM16 4LG

## DECLARATION OF CONFORMITY

This is an important document and should be retained.

We, Clarke International, as the authorised representative of the manufacturer, declare that the following product(s) comply with the directive(s) and standard(s) listed below.

**Product Description:** Air Compressor

**Model number(s):** Warrior 55

**Serial / batch Number:** N/A

**Notified Body:** Istitutuo Servizi Europei Technologici SRL

Via Donatori del Sangue, 9

46024 –Moglia (MN)

Italy

**Technical Documentation Holder:** A.R. Pond

Clarke International

2a Shrubland Road

London E10,7RB

UK

**Conformity Assessment Procedure:** to 2000/14/EC Annex V

**Manufacturer:** European Supplier

**Noise Related Value:** 1.89 kW

**Measured Sound Power Level:** 96dB

**Guaranteed Sound Power Level:** 97dB

## DECLARATION OF CONFORMITY



Hemmall Street, Epping, Essex CM16 4LG

## DECLARATION OF CONFORMITY

This is an important document and should be retained.

**Directive(s):**

2004/108/EC	<i>Electromagnetic Compatibility Directive.</i>
2006/42/EC	<i>Machinery Directive.</i>
2006/95/EC	<i>Low Voltage Equipment Directive.</i>
2002/95/EC	<i>Restriction of Hazardous substances.</i>
2009/105/EC	<i>Simple Pressure Vessels</i>
2000/14/EC	<i>Noise Emissions Directive, (amended by 2005/88/EC)</i>

**Standard (s):**

EN 60335-1, EN 60204-1, EN 61000-6-3, EN 61000-6-4, EN 1012-1

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned directive(s) has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2011

Signed:

J.A. Clarke  
Director

**Date of Issue:**

04/04/2013

Place of issue:

Clarke International  
Hennall Street  
Epping  
Essex, CM16 4LG  
England

# POPULAR ACCESSORIES

Your local Clarke stockists can supply a wide choice of accessories to help you make the very best of your air compressor. These include:

## KIT1000



### 5 Piece Air Accessory Kit – KIT100

Kit comprises:

- Paint spray gun • Recoil hose • Paraffin gun
- Tyre inflator with gauge • Blow gun • All connections 1/4" BSP
- Weight 2kg



CAT116  
3/8" Air Drill



CAT118  
Sabre Saw



CAT121  
Dual Action  
Sander



CAT108  
1/2" Square  
Drive  
Reversible  
Ratchet



CAT109  
3/8" Square  
Drive  
Reversible  
Ratchet



CAT115  
1/2" Reversible  
Ratchet



CAT110  
1/2" Square  
Drive  
Impact  
Wrench



CAT117  
1/2" Impact  
Wrench



CAT111  
Orbital  
Sander



CAT113  
3" CUT-OFF TOOL

A comprehensive choice of Clarke spraying equipment is available for your air compressors, including:



PRO12

This professional spraygun is available with a choice of nozzle sizes to suit air compressors from 1.5HP – 3HP.



TG2

Touch up gun ideal for precision paint spraying and touch up work. This syphon fed, external mix spraygun is popular with professionals.

Air hose is available in a range of lengths. Amongst the most popular are:



BLACK RUBBER  
AIR HOSE

Complete with connections, this hose is available in lengths from 10m to 50m



RECOIL HOSE

Ideal for DIY and professional use, this recoil hose is available in a range of lengths

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## NOTES

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# A SELECTION FROM THE VAST RANGE OF

# Clarke®

## QUALITY PRODUCTS

### AIR COMPRESSORS

From DIY to industrial, Plus air tools, spray guns and accessories.

### GENERATORS

Prime duty or emergency standby for business, home and leisure.

### POWER WASHERS

Hot and cold, electric and engine driven - we have what you need

### WELDERS

Mig, Arc, Tig and Spot. From DIY to auto/industrial.

### METALWORKING

Drills, grinders and saws for DIY and professional use.

### WOODWORKING

Saws, sanders, lathes, mortisers and dust extraction.

### HYDRAULICS

Cranes, body repair kits, transmission jacks for all types of workshop use.

### WATER PUMPS

Submersible, electric and engine driven for DIY, agriculture and industry.

### POWER TOOLS

Angle grinders, cordless drill sets, saws and sanders.

### STARTERS/CHARGERS

All sizes for car and commercial use.



**PARTS & SERVICE: 020 8988 7400**

E-mail: [Parts@clarkeinternational.com](mailto:Parts@clarkeinternational.com) or [Service@clarkeinternational.com](mailto:Service@clarkeinternational.com)

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**Clarke® INTERNATIONAL** Hemnall Street, Epping, Essex CM16 4LG  
[www.clarkeinternational.com](http://www.clarkeinternational.com)